


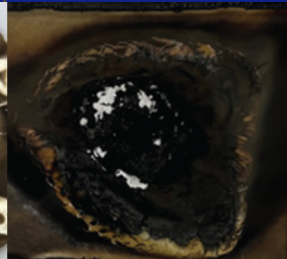
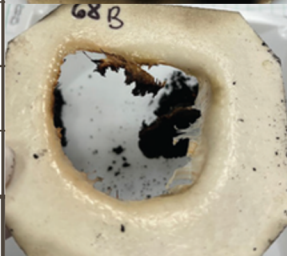

FLAME DEFENSE SERIES

FD493

The FD493 reactive synergist blend has been specifically formulated to provide the maximum flame retardant performance when used as an Antimony Trioxide replacement in PVC at a variety of loading levels. This product has also been shown to have efficacy in other polymer types where the primary flame retardant is halogen based. Depending on the specific polymer compound formulation it is typically possible to replace up to 100% of Antimony Trioxide.

Typical Physical Properties

Color	white to off-white
Specific Gravity	3.88
Median Particle Size	2-3 μm
Decomposition Temperature	>550°F (>290°C)

Formulation Ingredient	Control ATO	FD493	Control ATO Burn Test*	FD493 Burn Test*
PVC	100	100		
Plasticizer	45	45		
Ca-Zn Stabilizer	6	6		
Stearic Acid	0.3	0.3		
ATH	60	60		
ATO	5	0		
FD493 Synergist	0	5		
LOI	35.0	35.5		

*1/8 inch plaques burned in a horizontal plane for 9 minutes with a Bunsen burner. The flame penetrates the PVC compound containing ATO while the equivalent compound containing FD493 creates a robust char.

Contact MAT

Technical Support: Veronica.Livingstone@MATadditives.com

Customer Service: Suzanna.Murphy@MATadditives.com

Health and Safety: Refer to the Safety Data Sheet
Packaging: 50 lb. plastic bags, 2500 lb. pallet weight

Terms and Conditions of Sale: All statements, technical information and recommendations are based on tests we believe to be reliable. The accuracy or completeness is not guaranteed, and the following is made in place of all warranties, expressed or implied. Our only obligation is to replace product proved to be defective. We shall not be liable for any injury, loss or damage, direct or indirect, from using or not being able to use the product. Before using, customer must determine the suitability of the product for the intended use and customer assumes the responsibility. This statement may not be changed except by an agreement signed by an officer of the Michigan Additive Technologies Inc.